

X-RAY AND GAMMA RADIATION SMART PROBE BDKG-04

Scintillation wide range X-ray and gamma radiation smart probe to measure ambient dose equivalent and dose equivalent rate continuous X-ray and gamma radiation in energy range 15 keV – 3 MeV up to 10 Sv/h



Features

- X-ray and gamma radiation source search
- The smart probe BDKG-04 has RS232 interface
- Built-in LED stabilization system providing no need to use a reference source
- Dust and splash-proof case

Application

- X-ray diagnostics
- Nuclear medicine
- Radiology
- X-ray and NDT
- Radiography
- Customs x-ray equipment
- Radiation emergency
- Radiation monitoring
- Nuclear industry
- Acceleration equipment
- Scientific research

Specification

Detector

scintillation plastic with heavy metal admixtures
ø30x15 mm

Dose equivalent rate measuring range X-ray and gamma radiation

0.05 µSv - 10 Sv/h

Dose equivalent measuring range X-ray and gamma radiation

0.05 µSv - 10 Sv

Intrinsic measurement error

not more than ± 20 %

Energy range

15 keV - 3 MeV

Energy sensitivity response

15 - 60 keV

± 35 %

60 keV - 3 MeV

± 20 %

Sensitivity on ^{137}Cs 70 cps/ $\mu\text{Sv}\cdot\text{h}^{-1}$ **Operating temperature range**

- 30 - + 50°C

Relative humidity

+35°C

up to 98 %

Protection class

IP64

Radio disturbance

CEI/IEC CESP 22:1997

Electromagnetic compatibility

CEI/IEC 61000-4-2:1995

IEC 61000-4-3:1995

Weight

0.45 kg

Dimensions

ø60x200 mm

The smart probe BDKG-04 may be include in to complete set of radiation monitor AT1117M or work independently in real terms being connected to the PC.



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